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1. Poly(ethylene glycol) block copolymers

**Tirelli, N. / Lutolf, M.P. / Napoli, A. / Hubbell, J.A., Reviews in Molecular Biotechnology**, Mar 2002...ethylene glycol) Block copolymers **amphiphilic** polymers Polyelectrolytes...been elected as the standard **substrate** for biocompatible applications...coacervation) and in surface **coating**. 2.1 PEG sulfamers ( Napoli...lyotropic behavior in water of **amphiphilic** synthetic PEG copolymers has...**Full text article available from**  **SCIENCE DIRECT**  
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2. Nanoparticles in cancer therapy and diagnosis

**Brigger, I. / Dubernet, C. / Couvreur, P., Advanced Drug Delivery Reviews**, Sep 2002  
...endocytosis [64,65] . As many tumor cells are resistant to doxorubicin, which is a Pgp **substrate**, the incorporation of this compound into biodegradable polycyanoacrylate nanospheres...**Full text article available from**  **SCIENCE DIRECT**  
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3. Functional polymer microspheres

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**Kawaguchi, H.,** *Progress in Polymer Science*, Oct 2000


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☐ **6.** [Porous polymers and resins for biotechnological and biomedical applications](#)

**Hentze, H.-P. / Antonietti, M.,** *Reviews in Molecular Biotechnology*, Mar 2002

...separation as a porogen technique has been investigated in an effort to produce a **surgical** implant suitable for cell transplantation ( Schugens et al., 1996a ). Here the...


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☐ **7.** [Biodegradable polymeric nanoparticles as drug delivery devices](#)

**Sopimath, K.S. / Aminabhavi, T.M. / Kulkarni, A.R. / Rudzinski, W.E.,** *Journal of*

*Controlled Release*, Jan 2001

...prepare the PEG-coated NPs using **amphiphilic** PEG-polyester diblock copolymer...showed that the protective **coating** affecting against the phagocytes...cyanoacrylate-hexadecyl cyanoacrylate **amphiphilic** NPs by polymer precipitation...evaporation method; the PEG **coating** was confirmed by XPS. The...

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- ☐ **8.** Cholinesterases modulate cell adhesion in human neuroblastoma cells in vitro  
**Johnson, G. / Moore, S.W., International Journal of Developmental Neuroscience**, Dec 2000

...gjoXerga.sun.ac.za Samuel W. Moore Departments of Paediatric **Surgery** and Medical Biochemistry, Faculty of Medicine, University of...isoforms, on the other hand, showed no significant variation. **Coating** the tissue culture plate with AChE stimulated neurite outgrowth...

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- ☐ **9.** Biomedical application of functional polymers  
**Jagur-Grodzinski, J., Reactive and Functional Polymers**, Feb 1999

...by methoxy groups in PEO. It has been pointed out that PEG **coating** of nanospheres provides protection against interaction with...release of drugs at tumor reaction sites. It was used as a **surgical** paste loaded with the antitumor-drug taxol . An 80:20 copolymer...

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- ☐ **10.** Abstracts

*Bone*, Nov 1998

ASBMR-IBMS Second Joint Meeting 1001 Amino Terminal Domain Of Smad1 Interacting With Hoxe-8 Is Sufficient To Induce Bone Cell Differentiation. ffi weves Shi, X. Cao. Dept. of Pathology, University of Alabama at Birmingham, Birmingham, AL. BMPs transduce...

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- ☐ 11. Hydrophilic hybrid IPNs of segmented polyurethanes and copolymers of vinylpyrrolidone for applications in medicine

**Abraham, G.A. / de Queiroz, A.A.A. / Roman, J.S., *Biomaterials*, Jan 2001**  
 ...polymers. Thus, polymers with good film-forming properties provide **coatings** with much more biocompatibility than the original surfaces...angioplasty [5] . Most of the present-day companies provide polymeric **coatings** with biological activity or **coatings** to promote host-cell overgrowth...

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- ☐ 12. Platelet and bacterial repellence on sulfonated poly(ethylene glycol)-acrylate copolymer surfaces

**Lee, H.J. / Park, K.D. / Park, H.D. / Lee, W.K. / Han, D.K. / Kim, S.H. / Kim, Y.H., *Colloids and Surfaces B: Biointerfaces*, Oct 2000**  
 ...usefulness of these copolymers as a **coating** or additive material to improve...a still serious problem in **surgical** therapy and application of...copolymer can be applied as **coatings** or processing additives for...into a suitable existing HPB **substrate** and hydrophilic PEG/PEG-SO...

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- ☐ 13. Titanium dioxide photocatalysis

**Fujishima, A. / Rao, T.N. / Tryk, D.A., *Journal of Photochemistry and Photobiology, C: Photochemistry Reviews*, Jun 2000**

...group has been developing ways to put photocatalytic TiO 2 **coatings** on various types of support materials, for example, ceramic...photocatalytic decomposition of 2-propanol is a simple model **substrate** for kinetic studies, because, it is efficiently photodecomposed...

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- ☐ 14. Novel method to characterize the hydrolytic decomposition of biopolymer surfaces

**Kiss, E. / Vargha-Butler, E.I., *Colloids and Surfaces B: Biointerfaces*, Oct 1999**

...substances were prepared by dip **coating** onto hydrophobic and hydrophilic **substrates**. The changes in wettability...above 90 as hydrophobic **substrates**. The polymers and copolymers...thickness) was prepared by dip **coating** the glass surfaces in the...

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- ☐ 15. No Title

*Journal of Membrane Science*, May 1998

...5670483 STABLE MACROSCOPIC MEMBRANES FORMED BY SELF-ASSEMBLY OF **AMPHIPHILIC PEPTIDES** AND USES THEREFOR Zhang Shuguang; Lockshin Curtis...Institute of Technology Described herein is the self-assembly of **amphiphilic** peptides, i.e., peptides with alternating hydrophobic and...

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- ☐ 16. Highly localized photochemical processes in LB films of photo chromic material by using a photon scanning tunneling...

**Jiang, S. / Ichihashi, J. / Monobe, H. / Fujihira, M. / Ohtsu, M., *Optics Communications*, Mar 1994**

...is a 1 mm thickness quartz **substrate** on which an **amphiphilic** azobenzene derivative in a...power ratio before and after **coating** was measured to be LO-6 when...Thin Film (ti -180nm) Glass **Substrate** Fig. 2. Fabrication of a aperture...

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- ☐ 17.

Biosensors & bioelectronics update

**owen, V., *Biosensors and Bioelectronics*, Jan 1994**

...subcutaneous tissue. These sensors were **surgically** implanted in three nondiabetic dogs. Each...a platinum electrode of a pre-adsorbed **coating** of glucose oxidase (GOD)

mixed with the **amphiphilic** substituted pyrrole 1. In the presence...

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☐ **18. Bibliography section**

*Journal of Chromatography A*, Jan 1983  
Journal of Chromatography, 258 (1983) B1-8114 Â© Elsevier Science Publishers B.V.,  
Amsterdam - Printed in The Netherlands Bibliography Section Liquid Column  
Chromatography 1. REVIEWS AND BOOKS 1 Ahr, G.: (High-performance size-exclusion  
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